SWP Weekly Water Quality Summary

April 21 to 28, 2010

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Check 29, Check 41 and Vallecitos, but increased slightly at Barker Slough from April 21 to 28, 2010. Concentrations ranged from 374 to 552 µS/cm (224 to 331 mg/L), below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L.) As of April 28, 2010, the lowest concentration of 374 µS/cm occurred at Check 41, while the highest concentration of 545 µS/cm occurred at Barker Slough. EC concentration at HBP decreased from 516 µS/cm to 425 µS/cm, as of April 28, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.15 to 0.28 mg/L. As of April 28, Check 41 had the lowest concentration of 0.15 mg/L, while the highest concentration of 0.27 mg/L occurred at Barker Slough. The average daily bromide concentration at HBP was 0.18 mg/L as of April 28, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: This week turbidity levels increased at HBP, Barker Slough and Vallecitos, but decreased at Check 29 and Check 41. Turbidity levels ranged from 2.1 to 19.7 NTU during the week. As of April 28, 2010, the lowest level of 5.6 NTU occurred at Check 41, while the highest level of 19.7 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 4.7 NTU to 6.1 NTU as of April 28, 2010.

Dissolved Organic Carbon (DOC): Concentrations decreased slightly from 3.6 mg/L to 3.3 mg/L at HBP, from 4.3 mg/L to 4.2 mg/L at Check 13, but increased from 2.7 to 2.9 mg/L at Edmonston PP, as of April 28, 2010.

Taste and Odor Compounds: As of April 21, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 18 ng/L at Clifton Court Inlet, HBP, O'Neill Forebay Outlet (Check 13), San Luis Pacheco Outlet, Check 66, Castaic Lake, Silverwood Lake and Lake Perris.

Ground water pump-ins to the California Aqueduct from April 21 to 28, 2010 totaled 10,804 AF. The break down of the total volume was:

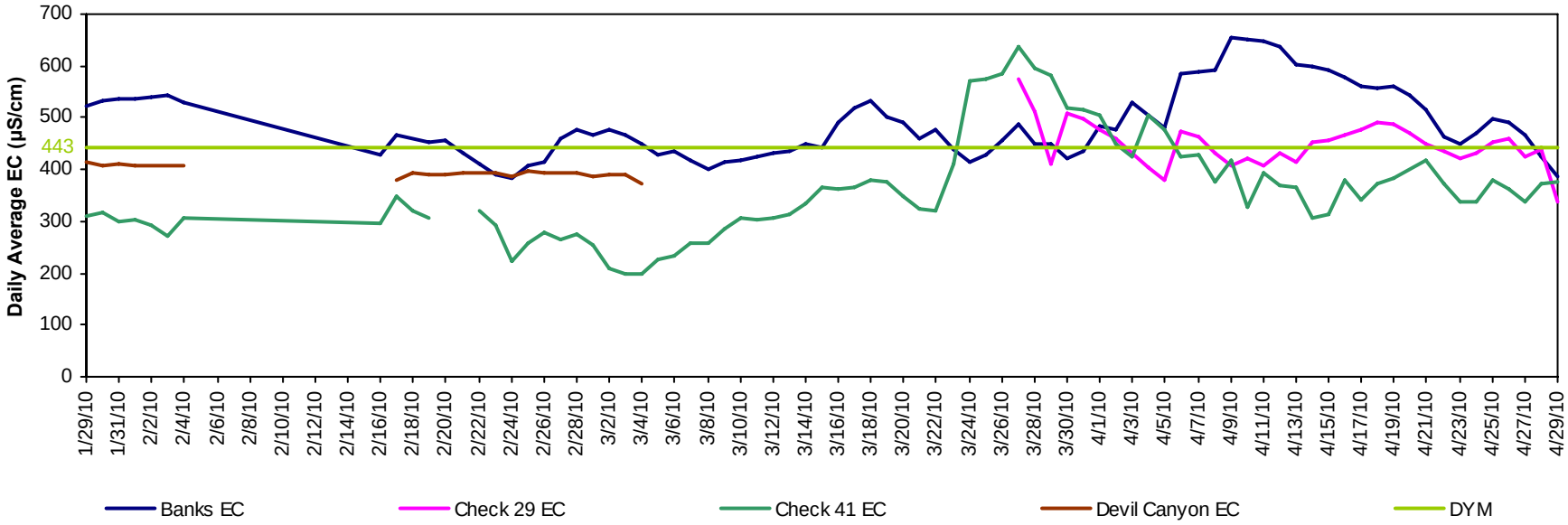
- Arvin Edison Water Storage District = 1,934 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 3,810 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 5,073 AF
- Semitropic (2&3) Water Storage District = 23 AF
- Wheeler Ridge Maricopa Water Storage District = 0 AF

As of April 28, 2010, no data were available for Devil Canyon due to malfunctioning instruments.

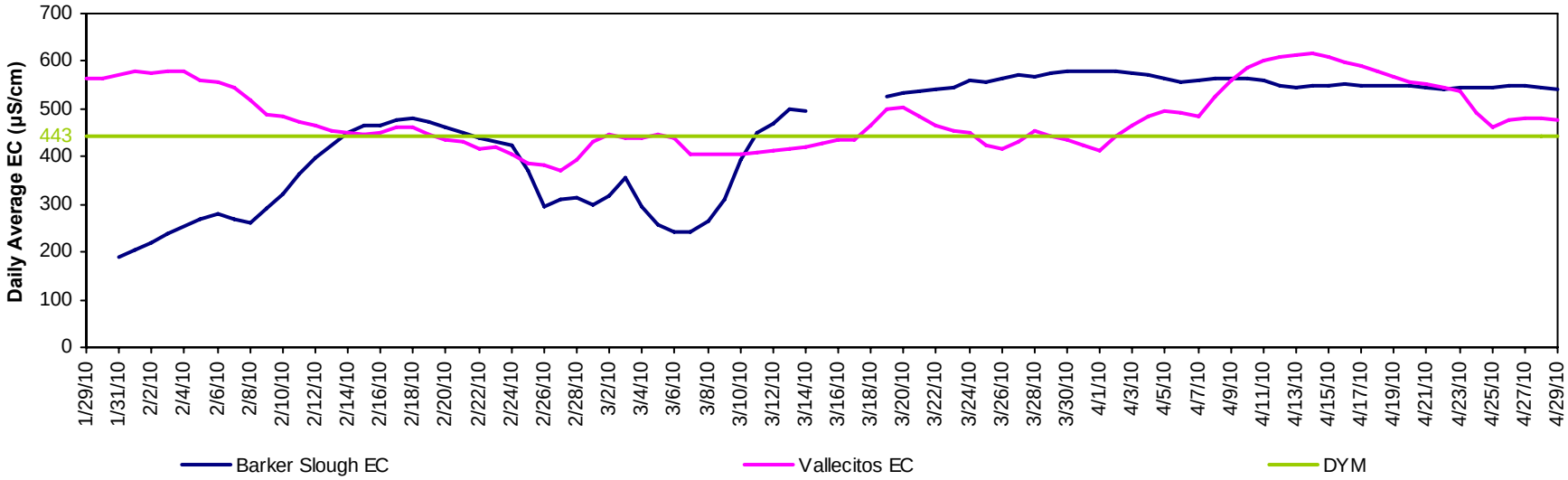
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

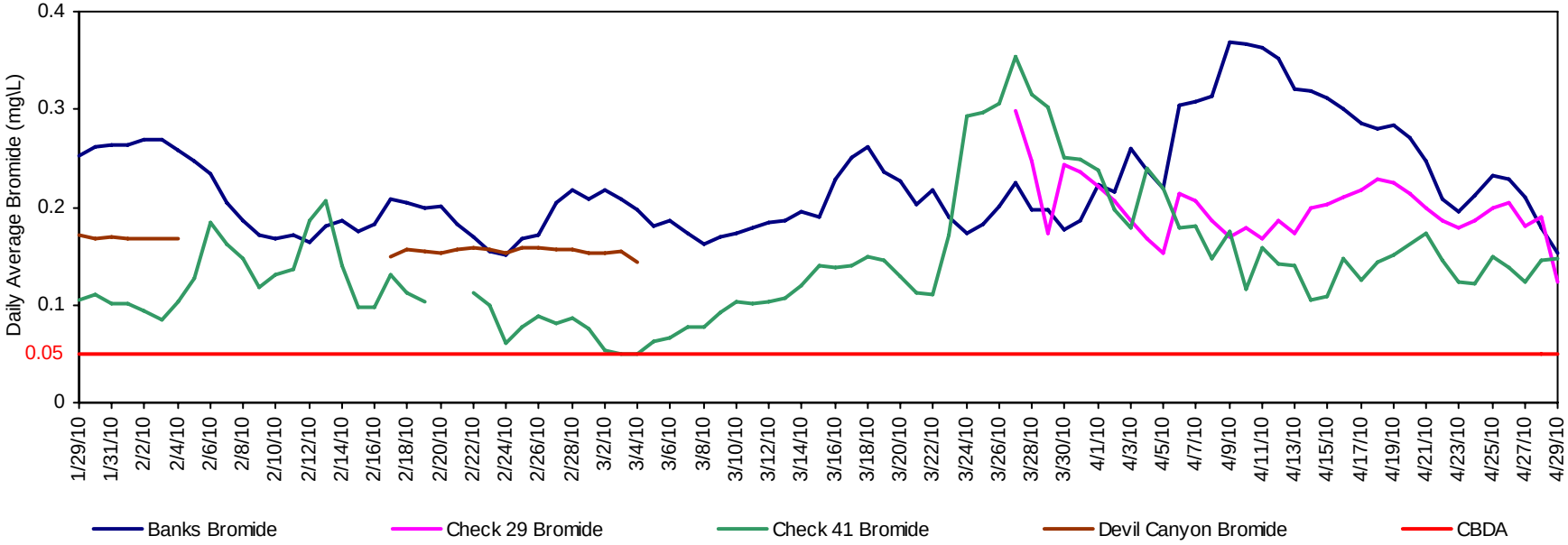
California Aqueduct - Electrical Conductivity



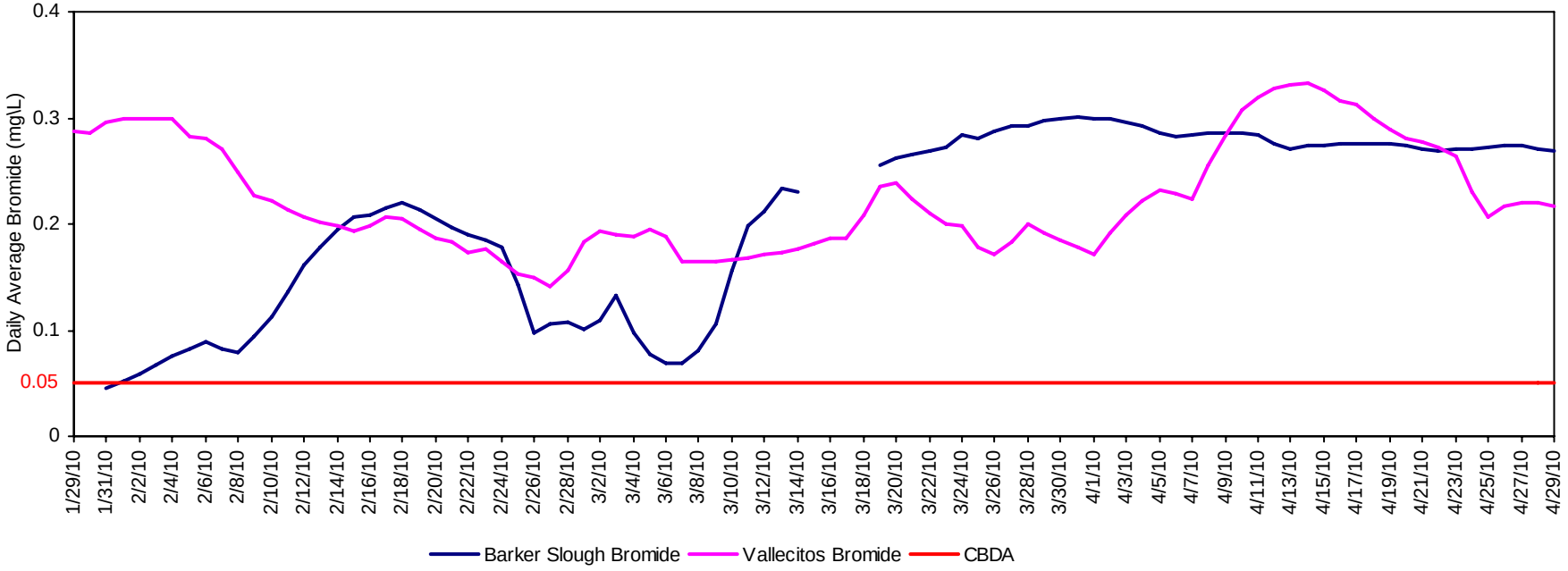
North and South Bay Aqueduct - Electrical Conductivity



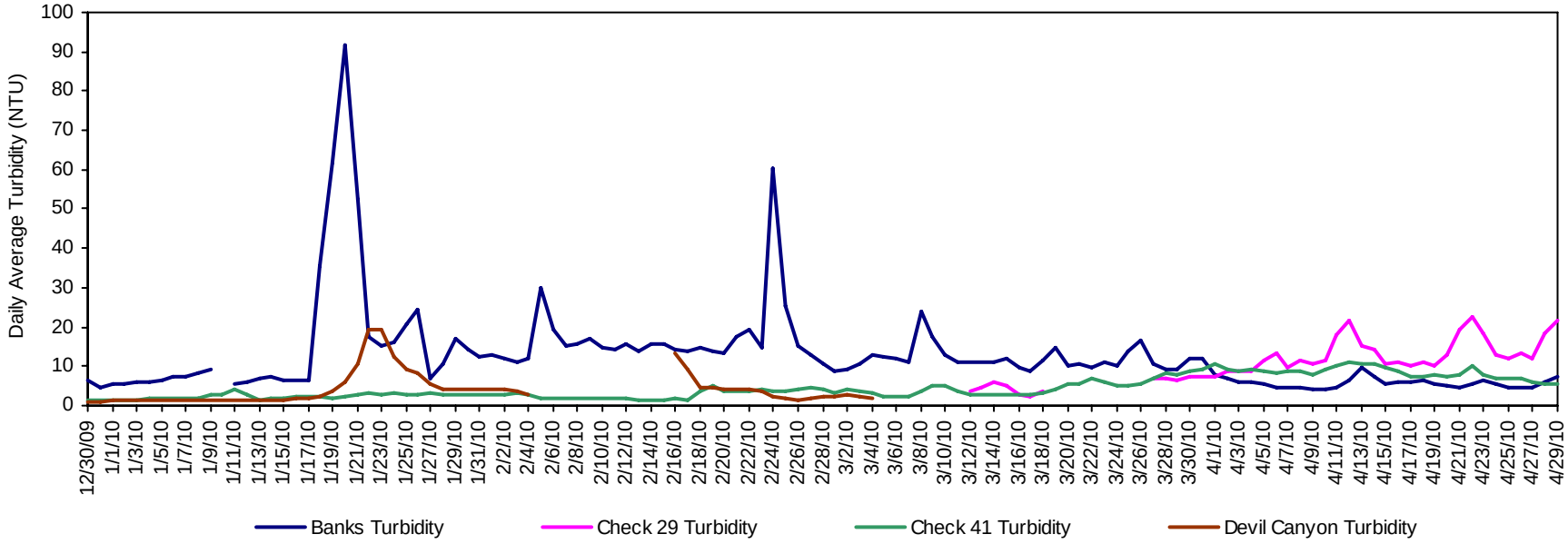
California Aqueduct - Calculated Bromide



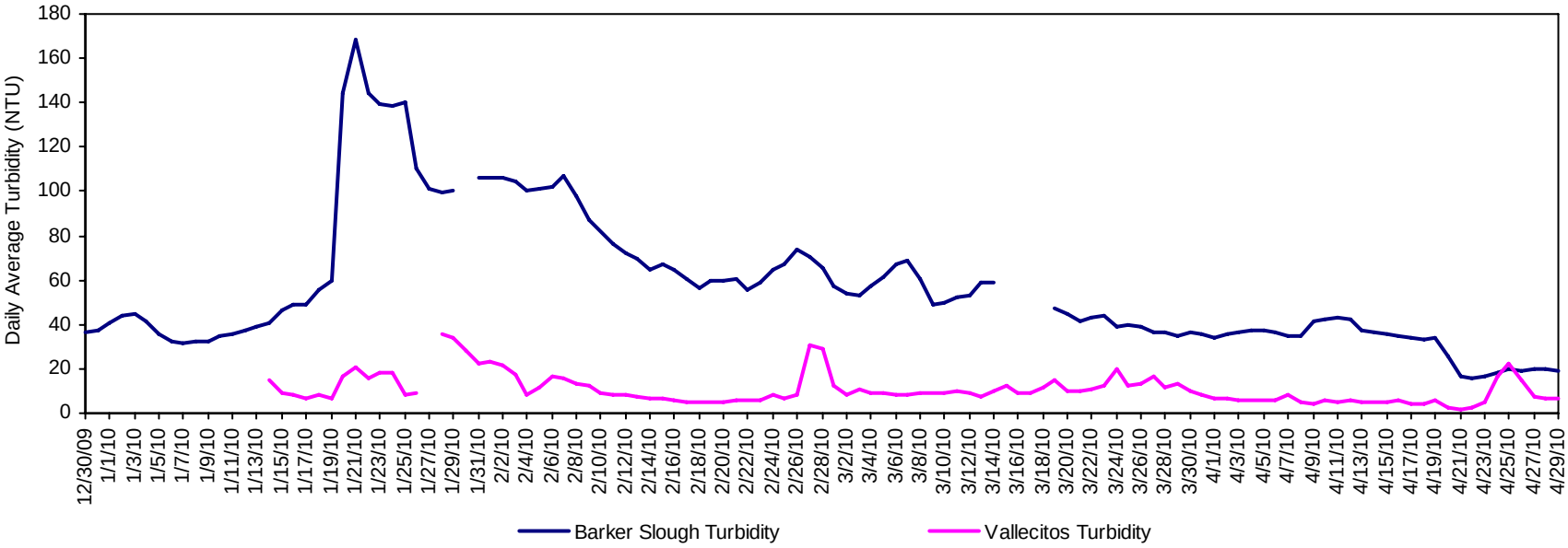
North and South Bay Aqueduct - Calculated Bromide

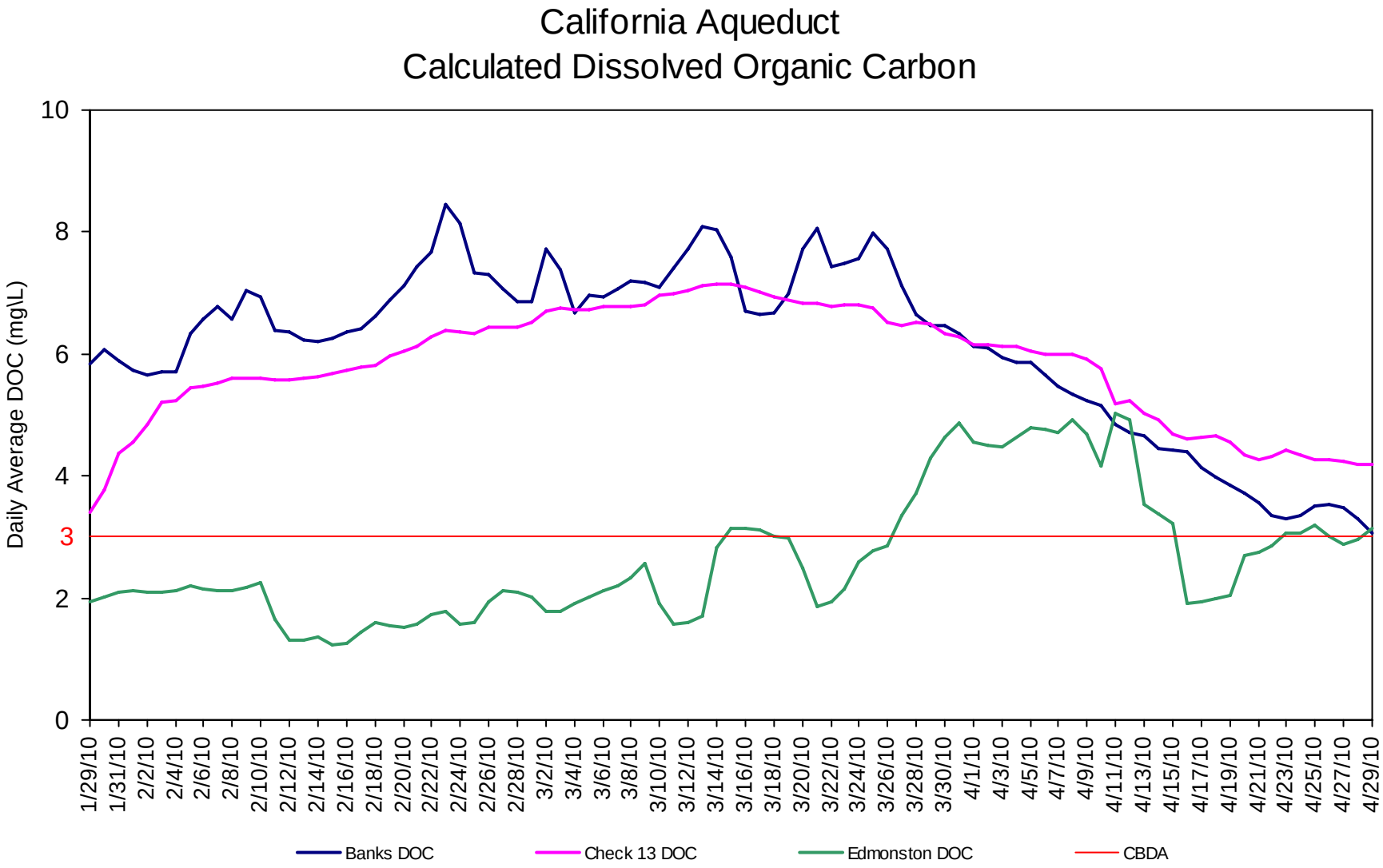


California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity




California Aqueduct
Calculated Dissolved Organic Carbon
Daily Average DOC (mg\L)
10
8
6
4
3
2
0
1/29/10
1/31/10
2/2/10
2/4/10
2/6/10
2/8/10
2/10/10
2/12/10
2/14/10
2/16/10
2/18/10
2/20/10
2/22/10
2/24/10
2/26/10
2/28/10
3/2/10
3/4/10
3/6/10
3/8/10
3/10/10
3/12/10
3/14/10
3/16/10
3/18/10
3/20/10
3/22/10
3/24/10
3/26/10
3/28/10
3/30/10
4/1/10
4/3/10
4/5/10
4/7/10
4/9/10
4/11/10
4/13/10
4/15/10
4/17/10
4/19/10
4/21/10
4/23/10
4/25/10
4/27/10
4/29/10
Banks DOC
Check 13 DOC
Edmonston DOC
CBDA